

The claims are as follows:

1. (previously presented) An automated method of managing server network computing resources having a workload of a given type, the method comprising:
 - providing resource data collectors for collecting data regarding performance of the server network computing resources, in accordance with the type of workload;
 - developing a forecast of utilization of the server network computing resources, based on historical performance data;
 - collecting real-time performance data regarding the server network computing resources running under the workload;
 - analyzing the real-time performance data and the forecast to identify a critical server network computing resource; and
 - automatically adjusting a capacity of the server network computing resource to provide steady-state performance of said resource under said workload.
2. (cancelled)
3. (previously presented) The method of claim 1 further comprising setting threshold values for said performance data and identifying the server network computing resource in accordance with the threshold values.
4. (previously presented) The method of claim 1 further comprising:

notifying a user of the server network computing resources when the critical resource is a hardware resource; and
notifying the user when the capacity of said hardware resource is adjusted.

5. (previously presented) The method of claim 1 further comprising initially providing additional hardware resources available to, but unused by, the server network computing resources.

6. (original) The method of claim 5 wherein the additional hardware resources are selected from the group consisting of CPUs, computer memory and computer disk storage.

7. (previously presented) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform an automated method of managing server network computing resources having a workload of a given type, using resource data collectors for collecting data regarding performance of the server network computing resources in accordance with the type of workload, and a forecast of utilization of the server network computing resources based on historical performance data, said method steps comprising:

collecting real-time performance data regarding the server network computing resources running under the workload;
analyzing the real-time performance data and the forecast to identify a critical server network computing resource; and

automatically adjusting a capacity of the server network computing resource to provide steady-state performance of said resource under said workload.

8. (cancelled)

9. (previously presented) The program storage device of claim 7 wherein the method steps further comprise setting threshold values for said performance data and identifying the server network computing resource in accordance with the threshold values.

10. (previously presented) The program storage device of claim 7 wherein the method steps further comprise:

notifying a user of the server network computing resources when the critical resource is a hardware resource; and

notifying the user when the capacity of said hardware resource is adjusted.

11. (previously presented) The program storage device of claim 7 wherein the server network computing resources further include additional hardware resources available to, but unused by, the computing resources.

12. (original) The program storage device of claim 11 wherein the additional hardware resources are selected from the group consisting of CPUs, computer memory and computer disk storage.

13. (previously presented) A computer program product for performing an automated method of managing server network computing resources having a workload of a given type, using resource data collectors for collecting data regarding performance of the server network computing resources in accordance with the type of workload, and a forecast of utilization of the server network computing resources based on historical performance data, said computer program product having:

- computer-readable program code for collecting real-time performance data regarding the server network computing resources running under the workload;
- computer-readable program code for analyzing the real-time performance data and the forecast to identify a critical server network computing resource; and
- computer-readable program code for automatically adjusting a capacity of the server network computing resource to provide steady-state performance of said resource under said workload.

14. (cancelled)

15. (previously presented) The computer program product of claim 13 wherein the computer program product further comprises computer-readable program code for setting threshold values for said performance data and computer-readable program code for identifying the server network computing resource in accordance with the threshold values.

16. (previously presented) The computer program product of claim 13 wherein the computer program product further comprises:

computer-readable program code for notifying a user of the server network computing resources when the critical resource is a hardware resource; and

computer-readable program code for notifying the user when the capacity of said hardware resource is adjusted.

17. (previously presented) The computer program product of claim 13 wherein the computer program product further includes additional hardware resources available to, but unused by, the server network computing resources.

18. (original) The computer program product of claim 17 wherein the additional hardware resources are selected from the group consisting of CPUs, computer memory and computer disk storage.

19. (previously presented) The method of claim 4 further comprising initially providing additional hardware resources available to, but unused by, the server network computing resources, the additional hardware resources being selected from the group consisting of CPUs, computer memory and computer disk storage.

20. (previously presented) The program storage device of claim 10 wherein the server network computing resources further include additional hardware resources available to, but

unused by, the computing resources, the additional hardware resources being selected from the group consisting of CPUs, computer memory and computer disk storage.

21. (previously presented) The computer program product of claim 16 wherein the computer program product further includes additional hardware resources available to, but unused by, the server network computing resources, the additional hardware resources being selected from the group consisting of CPUs, computer memory and computer disk storage.